

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

Claim 1 (canceled).

2. (previously presented) The image processing apparatus as claimed in claim 4,
wherein:

 said first processing way comprises a way for achieving a high-order image processing
for controlling image degradation.

3. (previously presented) The image processing apparatus as claimed in claim 4,
wherein:

 said second processing way comprises a way of simply changing the number of pixels
without changing the respective pixel values.

4. (currently amended) An image processing apparatus for changing the size of
image data of an original image, comprising:

 a comparison part comparing an image information value which indicates
predetermined image information of the original image, with a corresponding predetermined
reference value which is previously set for each of the predetermined image information; and
 a sharing-ratio determining part which, based on a comparison result of said
comparison part, determines a sharing ratio in processing for changing the size of the image

data between a first processing way and a second processing way different from said first processing way, wherein:

 said sharing-ratio determining part adjusts the sharing ratio in the processing between the first and second processing ways so that the entire process of a predetermined image size-change processing is completed within a given time duration, if [[when]] a required processing time ~~which is taken~~ for performing the entire processing of the predetermined image size-change processing utilizing the first processing way but not the second processing way exceeds the given time duration.

5. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

 said comparison part compares an image data size-change rate required with a predetermined reference value instead of comparing the predetermined image information value of the original image.

6. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

 the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the data size of the original image.

7. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the number of colors expressible by each pixel of the original image.

8. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information concerning the resolution of the original image.

9. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the information of the image information value and predetermined reference value which said comparison part compares comprises information as to whether or not the original image is a color image or a monochrome image.

10. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the sharing ratio between the first and second processing ways is determined according to a predetermined attribute of the original image.

11. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the sharing ratio between the first and second processing ways is determined according to a permissible time duration for completing the entire process of a relevant image size-change processing.

12. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

said first processing way comprises a process for preventing a jaggy from becoming conspicuous.

13. (original) The image processing apparatus as claimed in claim 10, wherein: the predetermined attribute of the original image which is used for determining the sharing ratio by said sharing-ratio determining part comprises the number of used colors in the original image.

14. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

the sharing ratio between the first and second processing ways is determined by said sharing-ratio determining part according to the contents of image processing in the entire process of a relevant image size-change processing.

15. (previously presented) The image processing apparatus as claimed in claim 4, wherein an application of the first and second processing ways is made in such a manner that one of the first and second processing way is applied, and, after that, the other processing way

is applied.

16. (original) The image processing apparatus as claimed in claim 15, wherein the application of the first and second processing ways is made in such a manner that one of the first and second processing way, which one requires a longer processing time, is applied first, and, after that, the other processing way is applied.

17. (previously presented) The image processing apparatus as claimed in claim 4, wherein an application of the first and second processing ways is made in such a manner that one of a first mode and a second mode is selected according to a comparison result of said comparison part,

wherein said first mode is such that both said first and second processing ways are applied in a combination manner, and said second mode is such that only one of the first and second processing ways is applied.

18. (original) The image processing apparatus as claimed in claim 17, wherein said second mode is such that only one of the first and second processing way, which one requires a longer processing time, is applied.

19. (previously presented) The image processing apparatus as claimed in claim 4, wherein:

said first processing way comprises an image size-change processing for an integer size-change rate, and said second processing way comprises an image size-change processing

for a size-change rate which includes a fraction.

Claim 20 (canceled).

21. (previously presented) The image processing method as claimed in claim 23,
wherein:

said first processing way comprises a way for achieving a high-order image processing
for controlling image degradation.

22. (previously presented) The image processing method as claimed in claim 23,
wherein:

said second processing way comprises a way of simply changing the number of pixels
without changing the respective pixel values.

23. (currently amended) An image processing method ~~as claimed in claim 20~~ for
changing the size of image data of an original image, comprising:

a comparison step comparing an image information value which indicates
predetermined image information of the original image, with a corresponding predetermined
reference value which is previously set for each of the predetermined image information; and
a sharing-ratio determining step, based on a comparison result of said comparison
[[part]] step, determining a sharing ratio in processing for changing the size of the image data
between a first processing way and a second processing way different from said first
processing way, wherein:

said sharing-ratio determining step comprises the step of adjusting the sharing ratio in the processing between the first and second processing ways so that the entire process of a predetermined image size-change processing is completed within a given time duration, if [[when]] a required processing time which is taken for performing the entire processing of the predetermined image size-change processing utilizing the first processing way but not the second processing way exceeds the given time duration.

24. (previously presented) The image processing method as claimed in claim 23, wherein:

in said comparison step, an image data size-change ratio required is compared with a predetermined reference value instead of comparing the predetermined image information value of the original image.

25. (previously presented) The image processing method as claimed in claim 23, wherein:

the information of the image information value and predetermined reference value which is applied in said comparison step for comparison comprises information concerning the data size of the original image.

26. (currently amended) The image processing method as claimed in claim 23, wherein:

the information of the image information value and predetermined reference value which is applied in said comparison part for comparison step comprises information

concerning the number of colors expressible by each pixel of the original image.

27. (currently amended) The image processing method as claimed in claim 23,
wherein:

the information of the image information value and predetermined reference value
which is applied in said comparison ~~part for comparison~~ step comprises information
concerning the resolution of the original image.

28. (currently amended) The image processing method as claimed in claim 23,
wherein:

the information of the image information value and predetermined reference value
which is applied in said comparison ~~part for comparison~~ step comprises information as to
whether or not the original image is a color image or a monochrome image.

29. (previously presented) The image processing method as claimed in claim 23,
wherein:

the sharing ratio between the first and second processing ways is determined
according to a predetermined attribute of the original image.

30. (previously presented) The image processing method as claimed in claim 23,
wherein:

the sharing ratio between the first and second processing ways is determined
according to a permissible time duration for completing the entire process of a relevant image

size-change processing.

31. (previously presented) The image processing method as claimed in claim 23, wherein:

said first processing way comprises a process for preventing a jaggy from becoming conspicuous.

32. (original) The image processing method claimed in claim 29, wherein:
the predetermined attribute of the original image which is used for determining the sharing ratio in said sharing-ratio determining step comprises the number of used colors in the original image.

33. (previously presented) The image processing method as claimed in claim 23, wherein:

the sharing ratio between the first and second processing ways is determined in said sharing-ratio determining step according to the contents of image processing in the entire process of a relevant image size-change processing.

34. (previously presented) The image processing method as claimed in claim 23, wherein an application of the first and second processing ways is made in such a manner that one of the first and second processing way is applied, and, after that, the other processing way is applied.

35. (original) The image processing method as claimed in claim 34, wherein the application of the first and second processing ways is made in such a manner that one of the first and second processing way, which one requires a longer processing time, is applied, and, after that, the other processing way is applied.

36. (currently amended) The image processing method as claimed in claim 23, wherein an application of the first and second processing ways is made in such a manner that one of a first mode and a second mode is selected according to a comparison result of said comparison [[part]] step,

wherein said first mode is such that both said first and second processing ways are applied in a combination manner, and said second mode is such that only one of the first and second processing ways is applied.

37. (original) The image processing method as claimed in claim 36, wherein said second mode is such that only one of the first and second processing way, which one requires a longer processing time, is applied.

38. (previously presented) The image processing method as claimed in claim 23, wherein:

 said first processing way comprises an image size-change processing for an integer size-change rate, and said second processing way comprises an image size-change processing for a size-change rate which includes a fraction.

Claim 39 (canceled).

40. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 21.

41. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 22.

42. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 23.

43. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 24.

44. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 25.

45. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 26.

46. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 27.

47. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 28.

48. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 29.

49. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 30.

50. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 31.

51. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 32.

52. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 33.

53. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 34.

54. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 35.

55. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 36.

56. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 37.

57. (previously presented) A computer readable medium storing computer executable instructions causing a computer to execute each step of the method claimed in claim 38.